

SEQUENCE LISTING

<110> Rock, Charles O
Price, Allen
White, Stephen

<120> Structure of Beta-Ketoacyl-ACP Sythases Complexed with Inhibitors

<130> 1340-1-032N

<140> Unassigned

<141> 2001-07-27

<150> 60/223,222

<151> 2000-08-04

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 403

<212> PRT

<213> Escherichia coli

<400> 1

Lys Arg Ala Val Ile Thr Gly Leu Gly Ile Val Ser Ser Ile Gly Asn
1 5 10 15

Asn Gln Gln Glu Val Leu Ala Ser Leu Arg Glu Gly Arg Ser Gly Ile
20 25 30

Thr Phe Ser Gln Glu Leu Lys Asp Ser Gly Met Arg Ser His Val Trp
35 40 45

Gly Asn Val Lys Leu Asp Thr Thr Gly Leu Ile Asp Arg Lys Val Val
50 55 60

Arg Phe Met Ser Asp Ala Ser Ile Tyr Ala Phe Leu Ser Met Glu Gln
65 70 75 80

Ala Ile Ala Asp Ala Gly Leu Ser Pro Glu Ala Tyr Gln Asn Asn Pro
85 90 95

Arg Val Gly Leu Ile Ala Gly Ser Gly Gly Gly Ser Pro Arg Phe Gln
100 105 110

Val Phe Gly Ala Asp Ala Met Arg Gly Pro Arg Gly Leu Lys Ala Val
115 120 125

Gly Pro Tyr Val Val Thr Lys Ala Met Ala Ser Gly Val Ser Ala Cys
130 135 140

Leu Ala Thr Pro Phe Lys Ile His Gly Val Asn Tyr Ser Ile Ser Ser
145 150 155 160

Ala Cys Ala Thr Ser Ala His Cys Ile Gly Asn Ala Val Glu Gln Ile
165 170 175

Gln Leu Gly Lys Gln Asp Ile Val Phe Ala Gly Gly Gly Glu Glu Leu
180 185 190

Cys Trp Glu Met Ala Cys Glu Phe Asp Ala Met Gly Ala Leu Ser Thr
195 200 205

Lys Tyr Asn Asp Thr Pro Glu Lys Ala Ser Arg Thr Tyr Asp Ala His
210 215 220

Arg Asp Gly Phe Val Ile Ala Gly Gly Gly Gly Met Val Val Val Glu
225 230 235 240

Glu Leu Glu His Ala Leu Ala Arg Gly Ala His Ile Tyr Ala Glu Ile
245 250 255

Val Gly Tyr Gly Ala Thr Ser Asp Gly Ala Asp Met Val Ala Pro Ser
260 265 270

Gly Glu Gly Ala Val Arg Cys Met Lys Met Ala Met His Gly Val Asp
275 280 285

Thr Pro Ile Asp Tyr Leu Asn Ser His Gly Thr Ser Thr Pro Val Gly
290 295 300

Asp Val Lys Glu Leu Ala Ala Ile Arg Glu Val Phe Gly Asp Lys Ser
305 310 315 320

Pro Ala Ile Ser Ala Thr Lys Ala Met Thr Gly His Ser Leu Gly Ala
325 330 335

Ala Gly Val Gln Glu Ala Ile Tyr Ser Leu Leu Met Leu Glu His Gly
340 345 350

Phe Ile Ala Pro Ser Ile Asn Ile Glu Glu Leu Asp Glu Gln Ala Ala
355 360 365

Gly Leu Asn Ile Val Thr Glu Thr Thr Asp Arg Glu Leu Thr Thr Val
370 375 380

Met Ser Asn Ser Phe Gly Phe Gly Gly Thr Asn Ala Thr Leu Val Met
385 390 395 400

Arg Lys Leu

<210> 2
<211> 406
<212> PRT
<213> Escherichia coli

<400> 2

Met Lys Arg Ala Val Ile Thr Gly Leu Gly Ile Val Ser Ser Ile Gly
1 5 10 15

Asn Asn Gln Gln Glu Val Leu Ala Ser Leu Arg Glu Gly Arg Ser Gly
20 25 30

Ile Thr Phe Ser Gln Glu Leu Lys Asp Ser Gly Met Arg Ser His Val
35 40 45

Trp Gly Asn Val Lys Leu Asp Thr Thr Gly Leu Ile Asp Arg Lys Val
 50 55 60
 Val Arg Phe Met Ser Asp Ala Ser Ile Tyr Ala Phe Leu Ser Met Glu
 65 70 75 80
 Gln Ala Ile Ala Asp Ala Gly Leu Ser Pro Glu Ala Tyr Gln Asn Asn
 85 90 95
 Pro Arg Val Gly Leu Ile Ala Gly Ser Gly Gly Gly Ser Pro Arg Phe
 100 105 110
 Gln Val Phe Gly Ala Asp Ala Met Arg Gly Pro Arg Gly Leu Lys Ala
 115 120 125
 Val Gly Pro Tyr Val Val Thr Lys Ala Met Ala Ser Gly Val Ser Ala
 130 135 140
 Cys Leu Ala Thr Pro Phe Lys Ile His Gly Val Asn Tyr Ser Ile Ser
 145 150 155 160
 Ser Ala Cys Ala Thr Ser Ala His Cys Ile Gly Asn Ala Val Glu Gln
 165 170 175
 Ile Gln Leu Gly Lys Gln Asp Ile Val Phe Ala Gly Gly Gly Glu Glu
 180 185 190
 Leu Cys Trp Glu Met Ala Cys Glu Phe Asp Ala Met Gly Ala Leu Ser
 195 200 205
 Thr Lys Tyr Asn Asp Thr Pro Glu Lys Ala Ser Arg Thr Tyr Asp Ala
 210 215 220
 His Arg Asp Gly Phe Val Ile Ala Gly Gly Gly Gly Met Val Val Val
 225 230 235 240
 Glu Glu Leu Glu His Ala Leu Ala Arg Gly Ala His Ile Tyr Ala Glu
 245 250 255
 Ile Val Gly Tyr Gly Ala Thr Ser Asp Gly Ala Asp Met Val Ala Pro
 260 265 270
 Ser Gly Glu Gly Ala Val Arg Cys Met Lys Met Ala Met His Gly Val
 275 280 285
 Asp Thr Pro Ile Asp Tyr Leu Asn Ser His Gly Thr Ser Thr Pro Val
 290 295 300
 Gly Asp Val Lys Glu Leu Ala Ala Ile Arg Glu Val Phe Gly Asp Lys
 305 310 315 320
 Ser Pro Ala Ile Ser Ala Thr Lys Ala Met Thr Gly His Ser Leu Gly
 325 330 335
 Ala Ala Gly Val Gln Glu Ala Ile Tyr Ser Leu Leu Met Leu Glu His
 340 345 350

Gly Phe Ile Ala Pro Ser Ile Asn Ile Glu Glu Leu Asp Glu Gln Ala
 355 360 365

Ala Gly Leu Asn Ile Val Thr Glu Thr Thr Asp Arg Glu Leu Thr Thr
 370 375 380

Val Met Ser Asn Ser Phe Gly Phe Gly Gly Thr Asn Ala Thr Leu Val
 385 390 395 400

Met Arg Lys Leu Lys Asp
 405

<210> 3
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 3
 aaagccatga ccgctaactc tc 22

<210> 4
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 4
 gcaggatccg gcgattgtca atgatg 26